## ISSUE SLIP STAPLE AREA (for additional cross references)

| PUSITION                  | in!Tials | ID NO.      | DATE     |  |  |  |  |  |  |
|---------------------------|----------|-------------|----------|--|--|--|--|--|--|
| FEE DETERMINATION         | 18       |             | 10.2 91  |  |  |  |  |  |  |
| O.I.P.E. CLASSIFIER       |          |             |          |  |  |  |  |  |  |
| FORMALITY REVIEW          | MW       | 572         | 11-01-01 |  |  |  |  |  |  |
| RESPONSE FORMALITY REVIEW | m        | 9.0.5       | 3/27/0-  |  |  |  |  |  |  |
|                           |          | <i>V</i> -0 |          |  |  |  |  |  |  |

## **INDEX OF CLAIMS**

| ~ | Rejected                   | Ν | Non-elected  |
|---|----------------------------|---|--------------|
| = | Allowed                    | 1 | Interference |
| _ | (Through numeral) Canceled | Α | Appeal       |
|   | Restricted                 | Ο | Objected     |

| Ci       |          | n Date       |  |          |          |  |  |          |          |          | 1        | Claim Date |          |  |          |          |           |              |               |              |          |          | ]        | Claim Date |       |                |          |          |                         |          |          |          |                |              |              |  |          |
|----------|----------|--------------|--|----------|----------|--|--|----------|----------|----------|----------|------------|----------|--|----------|----------|-----------|--------------|---------------|--------------|----------|----------|----------|------------|-------|----------------|----------|----------|-------------------------|----------|----------|----------|----------------|--------------|--------------|--|----------|
| ۳        |          | *            |  |          |          |  |  |          |          |          | 1        | ł          | ۳        | 1                                      |          | Г        | Г         |              | Ē             | Ť            |          | П        | П        | П          | 1     | <u> </u>       | _        | Т        | Т                       |          |          | <u> </u> | Ť              | Γ            | Ι            | Т  | T        |
| 1_       | 曺        | ۹            | ł  |          |          |  |  |          |          | l        |          | l          | l_       | 뎔                                      |          |          |           |              |               |              |          |          | l        |            |       | ۱_             | 힐        |          | - 1                     | -        |          |          | l              |              |              |  | l        |
| Final    | Original | •            | ٠ ا  | 1        |          | 1  |  |          |          |          |          | l          | Final    | Original                               |          |          |           |              | 1             |              |          | 1        | 1        | 1          |       | Final          | Original | - 1      | ł                       | ı        |          |          |                |              | ļ            |  | 1        |
| ۳        | 10       | +018121111   | <u> </u>   | ┝        | ⊢        | _  | ⊢                                      | _        | ┡        | ▙        | -        | Į          | 쁘        | 0                                      | _        | <u> </u> | ├         | ⊢            | _             | ⊢            | _        | ┝        | ⊢        |            | 1     | ۳              |          | +        |                         |          |          |          | <u> </u>       | ├-           | ⊢            | ⊢  | ₽        |
|          | Ľ        | ٠            | <u> </u>   | <u> </u> | L.       | _  | ╙                                      | _        | ╙        | _        | Ш        | Į          | ᆫ        | 51                                     |          | <u> </u> | <u> </u>  | <u> </u>     | <u> </u>      | <u> </u>     | L        | <u> </u> | L        | _          | 1     | L              | 101      | 4        | _                       | _        |          | <u> </u> |                | ļ            | 辶            | 丄  | 1        |
| L        | 2        | ÷            |  | <u> </u> | L        |  | L                                      |          |          |          |          | ]          | L        | 52                                     |          |          | L_        | L            | 乚             |              | L        | _        | L        |            |       | L              | 102      | _        |                         | _        |          | L        |                |              | 乚            | L  | L        |
|          | 3        | -            |  |          | ł        | 1  |  | ł        | -        |          |          | l          |          | 53                                     |          |          |           |              |               |              |          | 1        |          |            |       | l              | 103      | -        | - {                     |          |          |          |                |              |              | 1  | ł        |
| Г        | 4        | ÷            |  |          |          |  |  |          |          |          |          | l          |          | 54                                     |          |          |           |              |               |              |          |          |          |            |       |                | 104      |          |                         |          |          |          |                |              |              | П  | Γ        |
|          | 5        | ÷            |  | -        | Г        | П  | Γ                                      |          | Г        |          |          | 1          | Г        | 55                                     |          |          |           |              |               |              |          |          | П        |            | ١.    |                | 105      | Т        |                         | ī        |          |          |                |              |              | Г  | Г        |
|          | 6        | 1.           | 1  |          |          |  | П                                      |          | Г        | T        |          | i          | Г        | 56                                     |          |          |           |              |               |              |          |          | Π        |            | 1     |                | 106      | T        |                         | T        |          |          |                |              |              | Г  | Г        |
| $\vdash$ | 7        | -            |  | Т        | 1        |  | T                                      |          |          | T        |          |            | Г        | 57                                     |          |          |           |              |               |              |          | Г        |          |            | ا     | _              | 107      |          | 寸                       | $\neg$   |          |          |                |              |              | Г  | Г        |
| $\vdash$ | 8        | +            |  | 1        | _        | $\vdash$   | 1                                      | 1        | $\vdash$ | 1        |          | ١.         |          | 58                                     |          |          | T-        |              |               |              | `        | ١,       |          |            |       | T              | 108      | 寸        | 1                       |          |          |          |                | _            |              | 1  | 1        |
| $\vdash$ | 9        | :-           | H  | ┢        | 1        | ┢  | $\vdash$                               | H        | $\vdash$ | H        |          | l          | ┢╌       | 59                                     | H        | H        | Н         | H            | $\vdash$      | $\vdash$     | $\vdash$ | H        | Н        |            | 1     |                | 109      | -+       | 7                       | $\dashv$ |          | $\vdash$ | -              | ┞            | _            | $\vdash$   | t        |
| -        | 10       | -            | ┢  | +        | ┢╌       | -  | +-                                     | +-       | $\vdash$ | +-       | $\vdash$ | 1          | ⊢        | 60                                     |          |          | -         | -            | ├             | -            |          | -        | -        |            | :     |                | 110      | $\dashv$ | +                       | _        |          | $\vdash$ | $\vdash$       | ┢            | H            | ╁  | H        |
| $\vdash$ | 11       | 1            | ├─   | ├        | ┢        | ⊢  | $\vdash$                               | ┼        | -        | ⊢        | $\vdash$ | ł          | ⊢        | 61                                     | H        | $\vdash$ | ⊢         | ⊢            | $\vdash$      | <del> </del> |          | -        | ⊢        | -          | -     | ┝              | 111      | $\dashv$ | +                       | $\dashv$ |          | $\vdash$ |                | $\vdash$     | $\vdash$     | ⊢  | ⊢        |
| -        | 12       | 1            | ⊢  | ┞        | ⊢        | ⊢  | ⊢                                      | ⊢        | ⊢        | ⊢        | Н        | 1          | ⊢        | 62                                     |          | H        | ⊢         | $\vdash$     | $\vdash$      | <u> </u>     |          | $\vdash$ | 1        | -          | 7     | <u> </u>       | 112      | $\dashv$ | +                       |          |          | ⊢        | Η.             | ⊢            | ⊢            | ₩  | ⊦        |
| -        |          | 1            | 1  | ├-       | ⊢        | 1−   |  | ╄        | $\vdash$ | ⊢        | H        | 1          |          | ــــــــــــــــــــــــــــــــــــــ | -        |          | -         | <del>-</del> | <u> </u>      | H            | ⊢ٔ       | Ļ        |          | _          |       | ⊢              | -        | 4        | -                       | _        | $\vdash$ |          | -              | <del> </del> |              |  | -        |
| <u></u>  | 13       | 13           | ـــــ  | 1        | _        | ┡  | <u> </u>                               | ┞ .      | ┡        | <u> </u> | $\vdash$ |            | Ľ        | 63                                     |          | igsqcut  | <u> </u>  | <u> </u>     | <b> </b>      | <u> </u>     | <u> </u> | ļ        | -        | <u> </u>   | ٤.    | <u> </u>       | 113      | 4        | 4                       | _        |          | <u> </u> | Ŀ              |              | Ľ            | 屵  | L        |
| <u> </u> | 14       | 4.           | <u> </u>   | _        | _        | oxdot  | $oldsymbol{oldsymbol{oldsymbol{eta}}}$ | 1        | 1_       | L        | Ш        | ļ          | $\vdash$ | 64                                     |          | <u> </u> | <u> </u>  | _            | _             | <u> </u>     | <u> </u> | <u> </u> | <u> </u> |            |       | <u></u>        | 114      | _        | _                       | _        |          | <u> </u> | <u> </u>       | <u> </u>     | $\vdash$     | $\vdash$   | Ļ        |
| L        | 15       | ÷            | _  | _        | <u> </u> | _  | L                                      |          | <u> </u> | <u> </u> |          |            | $\vdash$ | 65                                     | L        | L.       | L         | <u> </u>     |               | L_           | <u> </u> | <u> </u> |          |            | 1     | Ľ              | 115      |          | _                       |          |          |          |                |              | L            | <u>L</u>   | L        |
|          | 16       | ÷.           | $oldsymbol{ol}}}}}}}}}}}}}}}}}}$ | L        | <u> </u> | <u>  ·</u>                                       | <u> </u>                               | <u> </u> | <u> </u> | L        | Ŀ        |            | L        | 66                                     | Li       | Ŀ        |           |              | Ŀ             | ئىــا        | ,        | Ŀ        | -        |            | į,    | _ *            | 116      | 4        | 4                       | ᆜ        | ٠,       | _        | -2             | <u> </u>     | 3            | 1  | L        |
|          | 17       | ÷            | L _  | <u> </u> | Ĺ        | 1  |  |          |          |          |          |            | L        | 67                                     |          |          |           | <u> </u>     | L.            |              |          |          |          |            |       | L_             | 117      |          |                         |          |          |          |                |              | L            | 1_   | L        |
| Г        | 18       | ÷            | Γ  | Г        |          | Г  | П                                      | Г        | Π        |          |          | ٠          | 1        | 68                                     |          |          |           |              |               |              |          |          |          |            |       | _              | 118      | 1        |                         |          |          |          |                |              | _            | 1  |          |
| Г        | 19       | ÷            |  |          |          |  |  |          |          |          |          | 1          | Г        | 69                                     |          |          |           |              | Г             |              |          |          |          |            | 1     | Γ              | 119      | $\neg$   | 7                       |          |          |          |                |              | Г            | П  | Г        |
| Г        | 20       | ب            | Г  | T        |          |  |  | Τ.       |          |          |          | 1          | Г        | 70                                     |          |          |           | Г            |               |              |          |          |          |            |       |                | 120      | 7        | ᄀ                       | ╗        |          |          |                |              |              | П  | Г        |
| ⊢        | 21       | 7            | ⊢  | ⊢        | 1        | ١.   | -                                      | ١.       | ١.       | ١.       | ١,       | ç          | ┢╾       | 71                                     | -        | <u> </u> | -         | $\vdash$     | -             |              | 3        | -        | -        | 1          |       | 3              | 121      | +        | ₹                       |          | -        | -        | -              |              | H            | ٠.   | H        |
| -        | 22       | 1,4.         | <del>                                     </del>   | ├        | -        | ┢  | ╁                                      | ├        | -        | ┝        | -        | Î          | -        | 72                                     | -        |          | -         | 1            | -             |              |          | H        |          | H          |       | H              | 122      | +        | 7                       | $\dashv$ | _        |          | $\vdash$       |              | -            | <del>                                     </del>   | H        |
| $\vdash$ | 23       | ÷            | H  | ╀        | $\vdash$ | ┝  | ┢                                      | ⊢        | ⊢        | ⊢        | Η,       |            | $\vdash$ | 73                                     | Н        | H        | $\vdash$  | ⊢            | <del>  </del> | -            |          | $\vdash$ | -        | -          | ١.    |                | 123      | $\dashv$ | ┪                       | $\dashv$ | -        | H        | $\vdash$       |              | <del> </del> | ⊢  | -        |
| Ľ        | 24       | ナーシュニュ       | <u> </u>   | ├-       | ⊢        | 1  | ┝                                      | ╀        | ├—       | ┝        | Н        |            |          | 74                                     | Н        | -        | -         | -            | -             |              |          |          | -        |            | ٠.    |                | 124      | +        | +                       | $\dashv$ |          |          |                |              | -            | -  | ┝        |
| ⊢        |          | 3            | _  | H        | -        | <u> </u>   | -                                      | H        | H        | ┞        | H        |            | ├        |  |          |          | -         | <u> </u>     | -             | -            |          | _        | H        | H          | i .   | Ļ              | -        | $\dashv$ | 4                       | -1       | _        |          |                | -            |              | ⊢  | ⊢        |
| ⊢        | 25       | 7            | _  | ⊢        | <u> </u> |  | ļ.                                     | ╀        | <u> </u> | ┡        | Н        | 1          | ⊢        | 75                                     | $\vdash$ |          |           |              |               | H            |          | <u> </u> | -        | H          |       | <u>-</u>       | 125      | +        | 4                       | -1       |          |          | <u> </u>       |              | <u> </u>     | ⊢  | ⊢        |
| L        | 26       | -            |  | <u> </u> | <u> </u> | <u> </u>   | _                                      | -        | <u> </u> | <u> </u> | Ш        |            | ļ        | 76                                     | _        |          |           |              | Н             | _            | _        |          | L        | Ľ          | ٠.    | <u> </u>       | 126      |          | 4                       |          |          |          |                | _            | Ľ            | <u> </u>   | -        |
| <u> </u> | 27       | 1            |  | 1_       |          | _  | ᄂ                                      | L.       | <u> </u> | <u> </u> |          | ١.         | _        | 77                                     |          |          |           | _            | _             |              |          |          | L        | Ш          |       | _              | 127      |          | 4                       | _1       | _        | :        |                | ļ            | <u> </u>     | L  | Ļ        |
| _        | 28       | =            | _  | _        | L_       | L  | L                                      | L        | <u></u>  | <u> </u> |          |            |          | 78                                     |          |          |           | $\Box$       |               |              |          |          | Ш        | Ш          |       |                | 128      | 4        | 4                       | _        |          |          |                | ·            | ╙            | $oxed{oxed}$   | L        |
|          | 29       |              |  |          |          | <u></u>  | <u> </u>                               | 1        |          |          |          | 1          | Ŀ        | 79                                     |          |          |           |              |               |              |          |          |          |            | Ì,    | _ :            | 129      | 1        | ┙                       |          |          |          |                |              |              |  | L        |
| L        | 30       |              |  |          |          |  |  |          |          |          |          |            | L        | 80                                     |          |          |           |              |               |              |          |          |          |            | ١.    | L              | 130      | $\perp$  | _                       |          |          |          |                |              |              | $oldsymbol{ol}}}}}}}}}}}}}}}}}}}}}}$ | L        |
|          | 31       |              |  |          |          |  |  |          |          |          |          | İ          |          | 81                                     |          |          |           |              |               |              |          |          |          |            |       | L              | 131      |          |                         | _ 1      |          |          |                |              |              |  |          |
|          | 32       |              | Г  |          |          |  |  | П        |          |          |          | ١.         |          | 82                                     |          |          |           |              |               |              |          |          |          |            | 4     |                | 132      |          | 1                       |          |          | - 1      |                |              |              |  |          |
|          | 33       |              |  |          |          |  |  |          |          |          |          | ŀ          |          | 83                                     |          |          |           |              |               |              |          |          |          |            | •     |                | 133      | Т        | T                       | П        |          |          |                |              |              | П  | Г        |
|          | 34       |              | Γ  | Г        | П        |  |  |          |          | Γ-       |          |            |          | 84                                     |          |          |           | П            |               |              |          |          | П        |            | ٠.    |                | 134      | T        | $\top$                  | $\neg$   |          |          |                |              | П            | П  | Г        |
|          | 35       |              |  | _        | П        |  | <u> </u>                               | Π        | Г        | Γ        | П        |            |          | 85                                     |          |          |           |              |               |              |          |          | П        |            |       |                | 135      | 丁        | $\exists$               | $\neg$   |          |          |                |              | $\Box$       | П  | Γ        |
|          | 36       |              |  |          | Н        |  | T .                                    | Ħ        | H        | t        | H        |            | $\vdash$ | 86                                     |          | $\dashv$ |           | П            | П             |              | H        |          | М        |            | `     | Г              | 136      | $\top$   | $\forall$               | 寸        | $\neg$   |          |                |              | П            | П  | Г        |
|          | 37       |              | $\vdash$   |          |          | -  | <u> </u>                               |          |          |          | $\vdash$ |            | -        | 87                                     |          |          |           |              | H             | -            | ٣,       |          | Н        |            | ÷     |                | 137      | 十        | 7                       | 7        |          | $\vdash$ |                |              |              |  | 1        |
| $\vdash$ | 38       | H            | -  |          | -        | <del>                                     </del> | <del> </del>                           |          | -        | 1        | $\vdash$ |            | -        | 88                                     | -        |          |           | $\vdash$     | Н             | $\dashv$     |          |          | H        |            |       |                | 138      | 十        | 7                       | $\dashv$ | ᅱ        |          | H              |              | $\vdash$     | Н  | H        |
| $\vdash$ | 39       | <del> </del> | Η.   | $\vdash$ | $\vdash$ | H  | $\vdash$                               | H        | H        | Ι-       | $\vdash$ | 3          | H        | 89                                     | $\dashv$ | $\dashv$ |           | Н            | Н             | -            |          | $\vdash$ | $\vdash$ | $\vdash$   | •     | H              | 139      | +        | +                       | +        | -        | -        | -              |              | $\vdash$     | $\vdash$   | $\vdash$ |
| $\vdash$ | _        | $\vdash$     | H  | H        | H        | $\vdash$   |  |          | H        | $\vdash$ | Н        | ٠,         | H        |  | $\dashv$ | $\vdash$ | -         | $\vdash$     | H             | $\dashv$     | $\dashv$ |          | Н        | Н          | ,     | <del>  ;</del> | -        | -        | +                       | +        | $\dashv$ | $\dashv$ | $\dashv$       |              | $\vdash$     | Н  | H        |
| $\vdash$ | 40       | $\vdash$     | 7  |          | $\vdash$ | <u> </u>   |  | $\vdash$ | H        | <u> </u> | Ш        |            | <u> </u> | 90                                     |          |          | $\sqcup$  | H            | Ы             | Ш            | _        |          | H        | Н          |       |                | 140      | +        | +                       | -        |          | =        | $\blacksquare$ |              |              | $\vdash$   |          |
| Ш        | 41       |              | L  |          |          | <u> </u>   | _                                      | Ŀ        | L.:      | _        | Ш        |            | Ш        | 91                                     | Ш        |          |           | Ш            | Ш             |              |          |          | Ш        | Ш          | 7     |                | 141      | 4        | 1                       | {        |          |          |                | Ш            | $\sqcup$     | Ш  | L        |
| <u> </u> | 42<br>43 |              | او   |          | Ш        | L  | _                                      | Ш        | Ш        | Ш        |          | Ĭ .        | Щ        | 92                                     | Ш        |          |           | Ш            | Ш             |              |          |          | Ш        | Щ          |       |                | 142      | 4        | 4                       |          |          |          |                |              | $\sqcup$     | ப  | L        |
|          | -        | 1            | ٤  |          | _ :      | Ŀ  |  | Ŀ        | Ŀ        |          |          | 3 1        | Ŀ        | 93                                     |          |          |           |              | - 5           | :            | انـــا   | ć        | Ŀ        | - 1        |       | L              | 143      | 1        | 1                       |          | •        |          |                |              | ائا          | Ш  | L        |
|          | 44       |              |  |          |          | L  |  |          |          |          |          |            |          | 94                                     |          |          |           |              |               | ]            |          |          |          |            |       |                | 144      | 1        |                         |          | - 4      |          |                | •            | ل_ا          | Ш  | L        |
| Ŀ        | 45       |              |  |          |          | - !  |  | _ ·      |          |          | ,        |            |          | 95                                     |          |          |           |              |               |              |          | :        | •        | ;          | 3     |                | 145      | -        | $oldsymbol{\mathbb{I}}$ |          |          |          | _ :            | 1.           |              | -:   | Ĺ        |
|          | 46       | ٠,           |  |          |          |  |  | -        |          | -        | -        |            |          | 96                                     |          | :        |           |              |               | ]            |          | ]        |          |            | 41 41 |                | 146      | _1       | J                       | ]        |          |          |                |              | <u>_</u> _]  |  | Ĺ        |
|          | 47       |              |  |          |          |  | 1                                      | П        |          |          |          | •          | -        | 97                                     |          |          | 7         |              |               |              | •        | Ŧ        | -        | 1          | -     | **             | 147      | T        | 7                       | •        |          | •        | -              | •            | ·            | L  |          |
|          | 48       |              |  |          |          | -  |  | П        |          |          |          |            |          | 98                                     |          |          |           | •            |               | -            | - 1      | ÷        |          | -          | •     | ٠,             | 148      | 1        | '                       | - 1      | _ 1      |          |                |              |              |  |          |
| T:       | 49       | •            |  | П        |          |  | -                                      |          |          | П        | ٠,       | ,          |          | 99                                     | ╛        |          | - (       |              |               | $\neg$       |          | -        | П        | -          |       |                | 149      | 1        | 寸                       | :        | _        |          | -              | ,            | ٠,           |  | Γ        |
| Г        | 50       |              | П  | П        |          | ·  |  | П        |          |          | П        |            | П        | 100                                    | $\dashv$ | 一        | $\exists$ |              | П             |              |          | $\Box$   | П        |            |       |                | 150      | $\top$   | 7                       | 寸        |          |          |                |              |              |  | Ι        |
| _        | ۳-       |              |  | _        | _        |  |  |          |          | •        |          |            | _        |  |          |          |           | _            |               |              |          |          |          |            |       |                |          |          | _                       | _        |          |          |                |              | _            | _  |          |

If more than 150 claims or 10 actions staple additional sheet here

BEST AVAILABLE COPY

(LEFT INSIDE)